



GLAST Monthly PSR

LAT Instrument



Accomplishments



- Tracker
 - Proceeding with production of flight trays; first article trays (etched and primed) show adequate bond
 - Decision to eliminate wire bond (silicon to MCM) encapsulation
 - Assembled "Tower 0"; nineteen trays all but six are non flight; successfully operating full tower
 - 342 MCMs delivered to SLAC; 608 needed for flight with 241 through burn-in at SLAC
 - ·· Novocap resolved ·· Pitch adapter in work
- ·· conformal coat revised spec in review
- ·· HV Shorts resolution in work ·· data read-back errors being investigated
- Calorimeter
 - CAL FM 101 (FMA) Complete Assembly delivery early November
 - ·· muon performance good
 - ·· EMI/EMC testing complete, no issues
 - ·· Vibration complete (Proto-flight levels), no issues
 - ·· In thermal vacuum chamber
 - CAL FM 102 (FMB) AFEE board installation complete delivery early December
- Electronics
 - Started TEM/TPS assembly and test vender Qual+2 12/1/04
 - All GTCC and GCCC TEM ASIC screened
 - Test bed hardware complete and connectivity verified (TEMs, GASU, PDU, FES)



ACCOMPLISHMENTS (con't)



- PCB meeting each week

• ACD

- Completed assembly and functional testing of two single row electronics chassis w/o PMTs
- Resolved fiber ribbon anomalies (length discrepancies, vents) and installed on flight structure
- Began installation of TDAs on flight structure
- Completed thermal cycling, vibration, and two TVAC cycles on ten spring mounted PMTs.
- Completed assembly of twenty more PMTs for qualification testing
- Completed all flight FREE boards, clear fiber cables, and TDAs
- Mechanical Systems
 - GRID # 1 nickel plating complete
 - GRID # 2 finish machining 80% complete
 - LM delivered Top Flange and Downspout heat pipes to SLAC

Monthly Status Review – October 27, 2004 NASA/DOE Review - October 12, 2004 Sub-System Mangers Face to Face – October 13, 2004



Issues/Problems

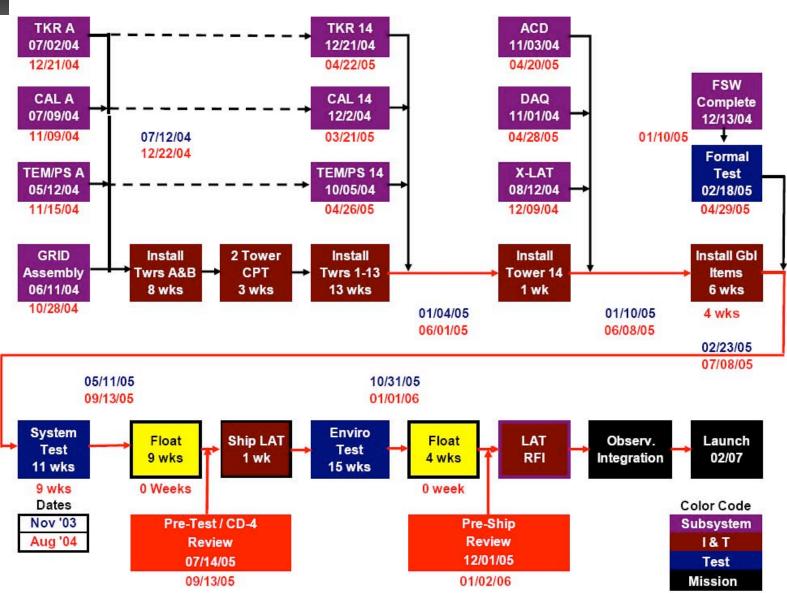


- SCHEDULE SCHEDULE SCHEDULE
- Tracker Flex Cable
- MCMs
- ASIC ESD Sensitivity
- Delivery of GRID #1 to I&T
- ► TEM/TPS Readiness for flight build



LAT Schedule







LAT Missed Milestones



Milestone	Due Date
TKR FM A Electrical Test	9/10/04
TKR Protoflight A Environmental Test	9/17/04
Flight Cable assy 1 to I&T	9/10/04
LAT Integration Readiness Review	9/10/04
Tracker Module A RFI	9/24/04
Flight Grid RFI Mech to I&T	9/15/04
Start LAT Integration	9/20/04

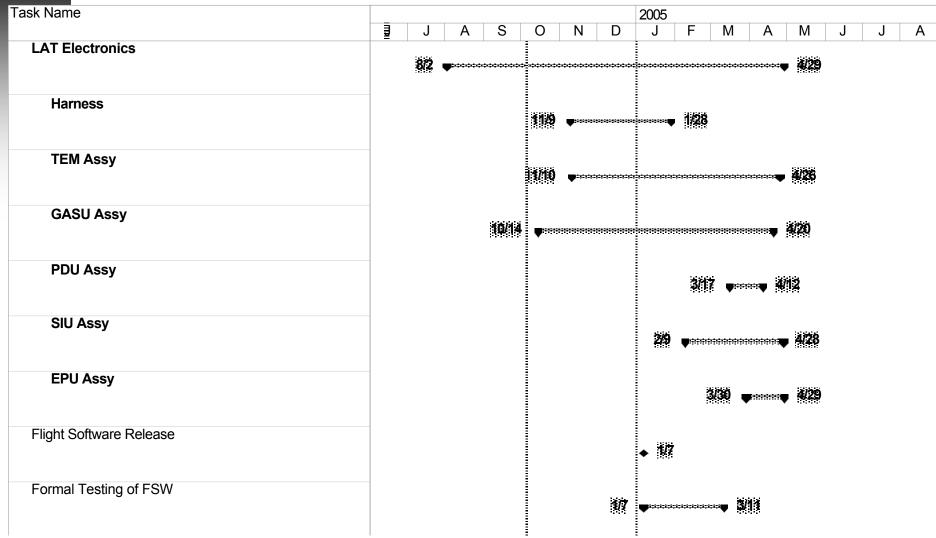




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Tower Integration and Test	12/23 •••••••••••••••••••••••••••••••••••									
Integrate LAT-wide electronics	88 ***** 97 2									
Optical Survey										
Integrate EMI Skirt and Htr Sw. boxes										
Optical and Muon Survey										
Integrate ACD										
Integrate Cross-LAT thermal plate/ Cooling GSE										
LAT Optical Survey										
Mechanical Fit Checks										
Comprehensive Performance test										





Name		2006				
	J A S O N D	JF	M			
End to End Tests	85					
Low Level Character/ MC	826 986					
Ship to NRL	◆ 989					
Unpack and Inspect	9822 × 9826					
Pre-environmental CPT	987 × 100					
EMI Test, set-up and perform	102 same 1995					
Modal Survey and Vibe	10/19 xx 10/21					
Acoustic Testing and CPT	#### EM####					
Thermal Balance Test	\$600 same \$222					
Thermal Cycling		1223				
Post T/V CPT and final checkout	•					
LAT Slack		→ 3822				